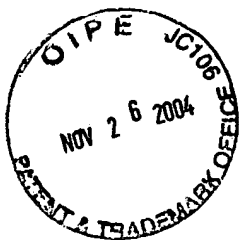


IFW



PATENT APPLICATION

**CERTIFICATE OF MAILING/FACSIMILE TRANSMISSION (37 CFR 1.8)**

I hereby certify that this paper (along with any paper referred to as being transmitted therewith) is (XXXX) being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box. 1450, Alexandria, Virginia 22313-1450 or ( ) being transmitted by facsimile to the U.S. Patent and Trademark Office. (Fax No. 703 872 9306) ( \_ pages). This facsimile is being sent from (908) 429-3650.

Maria T. Sanchez

(Print Name)

Date: November 23, 2004

Maria T. Sanchez  
(Signature)

Docket No. 2003US313

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application

Ralph R. DAMMEL

Art Unit: 1752

Serial No. 10/748,778, filed December 29, 2003

Examiner: NOT ASSIGNED

For: **PHOTORESIST COMPOSITION**

**INFORMATION DISCLOSURE STATEMENT WITHIN THREE MONTHS OF FILING  
OR BEFORE MAILING OF THE FIRST OFFICE ACTION (37 CFR 1.97 (b))**

November 23, 2004

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Serial No. 10/748,778  
Filed December 29, 2003

Dear Sir:

In accordance with the duty of disclosure provisions of 37 CFR §1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:
  - 1a. ☒ Form PTO-1449.
  - 1b. ☒ Copies of Information Disclosure Statement citations with the exception that copies of US Patents and US Patent Application Publications are not enclosed as the present application was filed after June 30, 2003 and the Patent Office has waived the requirement to enclose such documents under 37 C.F.R. § 1.98(a)(2)(i) pursuant to the Official Gazette announcement dated 05 August 2003. (If box not checked, see item 8a. below).
  - 1c. ☐ An English language copy of search report(s) from a counterpart foreign application or a PCT International Search Report - attached as annex to PCT/ISA/206 (If box checked, see item 8a. below).
  - 1d. ☐ English language abstract (complete or relevant portion(s)) or English language equivalent attached to each non-English language publication (see item 9c or 9e).
  - 1e. ☐ Explanations of Relevancy of References (ATTACHMENT 1(d), hereto) for providing a concise explanation of each non-English publication.
2. ☒ This Information Disclosure Statement is filed under 37 CFR §1.97(b) before the latter of three months after the U.S. patent application filing date or the first Office Action on the merits. Accordingly, no fee or §1.97(e) Statement is required.
3. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(c) after the first Office Action on the merits, but before a Final Office Action or a Notice of Allowance.
  - 3a. ☐ The §1.97(e) Statement in Item 5 below is applicable. Accordingly, no fee is required.
  - 3b. ☐ The \$180.00 fee set forth in 37 CFR §1.17(p) in accordance with 37 CFR §1.97(c) is to be charged to Deposit Account No. 03-2060.
4. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(d) after the Final Office Action or the Notice of Allowance, but before payment of the Issue Fee.

- ☐ The §1.97(e) Statement (Item 5 below) is applicable.
- A Petition to the Commissioner is hereby made under 37 CFR §1.97(d) to request consideration of this Information Disclosure Statement. The \$130.00 fee set forth in 37 CFR §1.17(i) is to be charged to Deposit Account No. 03-2060.
5. ☐ Statement Under §1.97(e) (*applicable if Item 3a or Item 4 is checked*)
- 5a. ☐ In accordance with 37 CFR §1.97(e)(1), it is stated that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
- 5b. ☐ In accordance with 37 CFR §1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
6. ☐ This is a continuation/divisional/continuation-in-part application under 37 CFR §1. 53(b). (*Check appropriate Items 6a and/or 6b and/or 6c*).
- 6a. ☐ Copies of the publications listed on Form PTO-1449 from prior Application Serial No., filed on, of which this application claims priority under 35 USC §120 have been omitted pursuant to 37 CFR §1.98(d) except those listed in 6b. below.
- 6b. ☐ Copies of the following publications listed on Form PTO-1449 which were not previously cited in prior Application Serial No. \_\_\_\_\_, filed on \_\_\_\_\_, of which this application claims priority under 35 USC §120, are provided herewith:
- 6c. ☐ Copies of the publications listed in Item 1c. above are listed on Form PTO-1449 but are not included as they were .

Serial No. 10/748,778  
Filed December 29, 2003

7. ☐ This is a continuation/divisional application under 37 CFR §1.53(d).  
(Check either Item 7a or 7b.)

7a. ☐ The Issue Fee has not been paid.

7b. ☐ A Petition to Withdraw from Issue under 37 CFR §1.313(b)(5) has been granted. A continuation application under 37 CFR §1.53(d) after payment of the Issue Fee is proper in accordance with 37 CFR §1.53(d)(1)(ii).

8. ☐ This is a Supplemental Information Disclosure Statement. (Check either Item 8a or 8b.)

8a. ☐ This Supplemental Information Disclosure Statement under 37 CFR §1.97(f) supplements the Information Disclosure Statement filed on\_\_\_\_\_.

8b. ☐ This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR §1.97(i), mailed \_\_\_\_\_. (MPEP 609, Form ¶ 6.51, July 1997.)

9. ☐ In accordance with 37 CFR §1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:

(Check appropriate Items 9a, 9b, 9c and/or 9d)

9a. ☐ satisfied because all non-English language publications were cited on the enclosed English language copy of the PCT International Search Report or the search report from a counterpart foreign application indicating the degree of relevance found by the foreign office. (See U.S. Patent and Trademark Office's authorization in the Federal Register, Vol. 57, No. 12, January 17, 1992, at page 2031 (Reply to Comment 68)).

9b. ☐ set forth in the application.

9c. ☐ satisfied because an English language equivalents are attached to each non-English language publication as follows:

Serial No. 10/748,778  
Filed December 29, 2003

- 9d. ☐ enclosed as Attachment 1(d), hereto.
- 9e. ☐ attached in abstracts in the English language as follows:
10. ☒ No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§1.97(g) and (h).
11. ☐ The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR §1.17 for this Information Disclosure Statement and/or Petition to Deposit Account No. \_\_\_\_\_.

Respectfully submitted,



Attorney for Applicant(s)  
Alan P. Kass  
(Reg. No. 32142)  
70 Meister Avenue  
Somerville, New Jersey 08876  
Telephone: (908) 595-3890  
Telefax: (908) 429-3650

Customer No. 26,289

**CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)**Applicant(s): **Ralph R. DAMMEL**

NOV 26 2004

Docket No.

2003US313

Application No.

10/748,778

Filing Date

December 29, 2003

Examiner

NOT ASSIGNED

Customer No.

26,289

Group Art Unit

1752

Invention:

**PHOTORESIST COMPOSITION**I hereby certify that this Information Disclosure Citation - 2 Pages

(Identify type of correspondence)

is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope

addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on

November 23, 2004

(Date)

**MARIA T. SANCHEZ**

(Typed or Printed Name of Person Mailing Correspondence)



(Signature of Person Mailing Correspondence)

**Note: Each paper must have its own certificate of mailing.**

**CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)**

Applicant(s): **Ralph R. DAMMEL**

NOV 26 2004

Docket No.

**2003US313**

Application No.

**10/748,778**

Filing Date

**December 29, 2003**

Examiner

**NOT ASSIGNED**

Customer No.

**26,289**

Group Art Unit

**1752**

Invention:

**PHOTORESIST COMPOSITION**

**"Diamondoid Hycrocarmons – Delving into Nature's Bounty",  
Alan P. Marchand, Science, Vol. 299, 3 January 2003, pps. 52-53**

I hereby certify that this

*(Identify type of correspondence)*

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*(Date)*

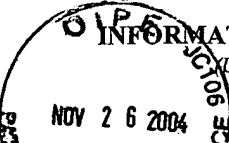
**MARIA T. SANCHEZ**

*(Typed or Printed Name of Person Mailing Correspondence)*

*Maria T. Sanchez*

*(Signature of Person Mailing Correspondence)*

**Note: Each paper must have its own certificate of mailing.**

 <p style="text-align: center;"><b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)</p>	Docket Number (Optional) <b>2003US313</b>	Application Number <b>10/748,778</b>
	Applicant(s) <b>Ralph R. DAMMEL</b>	
	Filing Date <b>December 29, 2003</b>	Group Art Unit <b>1752</b>

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,019,660	5/28/1991	Chapman et al.			
		6,783,589 B2	8/31/2004	Dahl et al.			

**U.S. PATENT APPLICATION PUBLICATIONS**

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		2002/0177743 A1	11/28/2002	Dahl et al.			
		2003/0199710 A1	10/23/2003	Liu et al.			

**FOREIGN PATENT DOCUMENTS**

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

		<b>“Diamondoid Hycrocarmons – Delving into Nature’s Bounty”, Alan P. Marchand, Science, Vol. 299, 3 January 2003, pps. 52-53</b>
		<b>“Isolation and Structure of Higher Diamondoids, Nanometer-Sized Diamond Molecules”, J. E. Dahl et al., Science, Vol. 299, 3 January 2003, pps. 96-99</b>

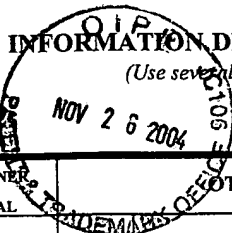
<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
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**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



# **INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)



Docket Number (Optional)  
**2003US313**

Application Number  
**10/748,778**

Applicant(s)  
**Ralph R. DAMMEL**

Filing Date  
**December 29, 2003**

Group Art Unit  
**1752**

\*EXAMINER  
INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

"A Novel Polymer For A 193-nm Resist", K. Nozaki et al., Journal of Photopolymer Science and Technology, Vol. 9, No. 3 (1996), pps. 509-522

"Design of cycloolefin-maleic anhydride resist for ArF lithography", J-C. Jung et al., SPIE, Vol. 3333 Part 1, 23-25 February 1998, pps. 11-25

"Adhesion Characteristics of Alicyclic Polymers for use in ArF Excimer Laser Lithography", K. Nakano et al., SPIE, Vol. 3333 Part 1, 23-25 February 1998, pps. 43-52


"Reactive ion etching of 193 nm resist candidates: current platforms, future requirements", T. Wallow et al., SPIE, Vol. 3333 Part 1, 23-25 February 1998, pps. 92-101


EXAMINER

DATE CONSIDERED

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CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)			Docket No.	
Applicant(s): Ralph R. DAMMEL			2003US313	
Application No. 10/748,778	Filing Date December 29, 2003	Examiner NOT ASSIGNED	Customer No. 26,289	Group Art Unit 1752
Invention:  PHOTORESIST COMPOSITION				
<p>I hereby certify that this "A Novel Polymer For A 193-nm Resist", K. Nozaki et al., Journal of Photopolymer Science and Technology, Vol. 9, No. 3 (1996), pps. 509-522</p> <p>(Identify type of correspondence)</p> <p>is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on November 23, 2004</p> <p>(Date)</p> <p>MARIA T. SANCHEZ</p> <p>(Typed or Printed Name of Person Mailing Correspondence)</p> <p><i>Maria T. Sanchez</i></p> <p>(Signature of Person Mailing Correspondence)</p> <p>Note: Each paper must have its own certificate of mailing.</p>				

CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)			Docket No.	
Applicant(s): <b>Ralph R. DAMMEL</b>			2003US313	
Application No. 10/748,778	Filing Date December 29, 2003	Examiner NOT ASSIGNED	Customer No. 26,289	Group Art Unit 1752
Invention:  <b>PHOTORESIST COMPOSITION</b>				
<p>I hereby certify that this <u>“Design of cycloolefin-maleic anhydride resist for ArF lithography”, J-C. Jung et al., SPIE, Vol. 3333 Part 1, 23-25 February 1998, pps. 11-25</u></p> <p>(Identify type of correspondence)</p> <p>is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on <u>November 23, 2004</u></p> <p>(Date)</p> <p><u>MARIA T. SANCHEZ</u> (Typed or Printed Name of Person Mailing Correspondence)</p> <p><u></u> (Signature of Person Mailing Correspondence)</p> <p>Note: Each paper must have its own certificate of mailing.</p>				

CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)			Docket No.	
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Application No. <b>10/748,778</b>	Filing Date <b>December 29, 2003</b>	Examiner <b>NOT ASSIGNED</b>	Customer No. <b>26,289</b>	Group Art Unit <b>1752</b>
Invention:  <b>PHOTORESIST COMPOSITION</b>				
<p>I hereby certify that this <u>"Adhesion Characteristics of Alicyclic Polymers for use in ArF Excimer Laser Lithography", K. Nakano et al., SPIE, Vol. 3333 Part 1, 23-25 February 1998, pps. 43-52</u></p> <p>(Identify type of correspondence)</p> <p>is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on <u>November 23, 2004</u></p> <p>(Date)</p> <p><u>MARIA T. SANCHEZ</u> (Typed or Printed Name of Person Mailing Correspondence)</p> <p><u></u> (Signature of Person Mailing Correspondence)</p> <p>Note: Each paper must have its own certificate of mailing.</p>				

**CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)**Applicant(s): **Ralph R. DAMMEL**NOV 26 2004  
U.S. PATENT & TRADEMARK OFFICE

Docket No.

**2003US313**

Application No.

**10/748,778**

Filing Date

**December 29, 2003**

Examiner

**NOT ASSIGNED**

Customer No.

**26,289**

Group Art Unit

**1752**

Invention:

**PHOTORESIST COMPOSITION**

I hereby certify that this

**"Reactive ion etching of 193 nm resist candidates: current platforms,  
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*(Date)***MARIA T. SANCHEZ***(Typed or Printed Name of Person Mailing Correspondence)**(Signature of Person Mailing Correspondence)***Note: Each paper must have its own certificate of mailing.**